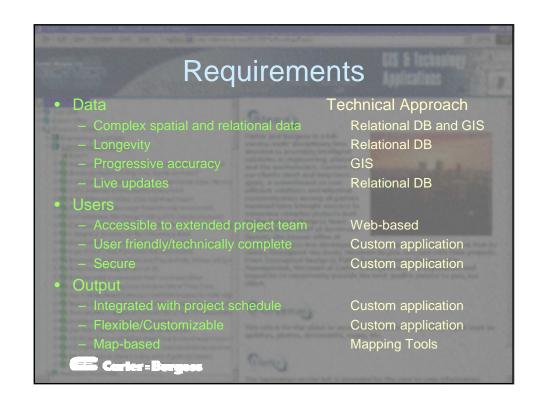
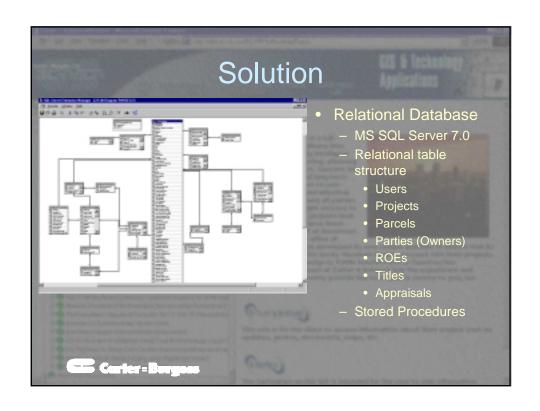


## Requirements • Data - Complex spatial and relational data - Longevity - Progressive accuracy - Live updates • Users - Accessible to extended project team - User friendly/technically complete - Secure • Output - Integrated with project schedule - Flexible/Customizable - Map-based Carter-Barges









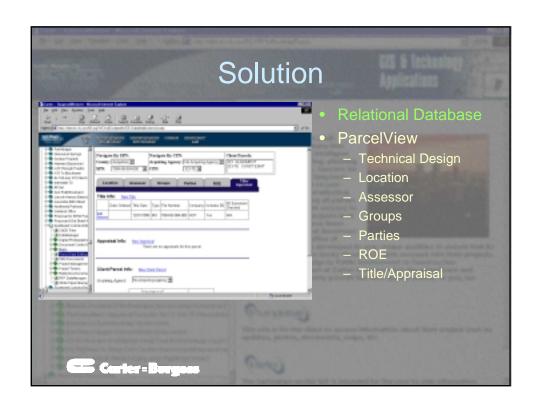


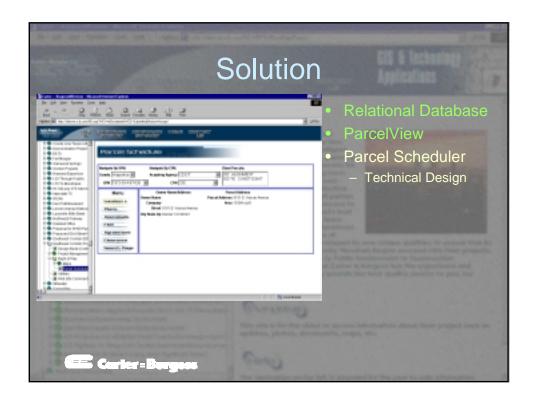


















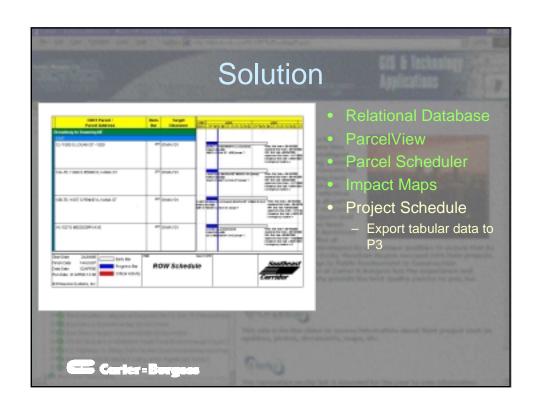














## Future Development • Tighter coupling between GIS and database - Links from database to Microstation for increased spatial accuracy - Geodatabase/SDE • ArcIMS • GIS analysis tools

